Alaskan Naval Base Would Be Key to Pacific Coast

(Copyrighted, 1916, by Frank G. Carpenter.)

CORDOVA.

HE preparedness program of the present Congress should include large appropriations for the defense of Alaska. As a naval base this territory is a key to the morthern Pacific. As far as fuel for our battleships is concerned, it is the key to our whole Pacific coast, as well as to Hawaii and the Philippines. Indeed, its coal and oil resources may some day decide whether we are to have victory or defeat in a war with

some day decide whether we are to have victory or defeat in a war with Japan.

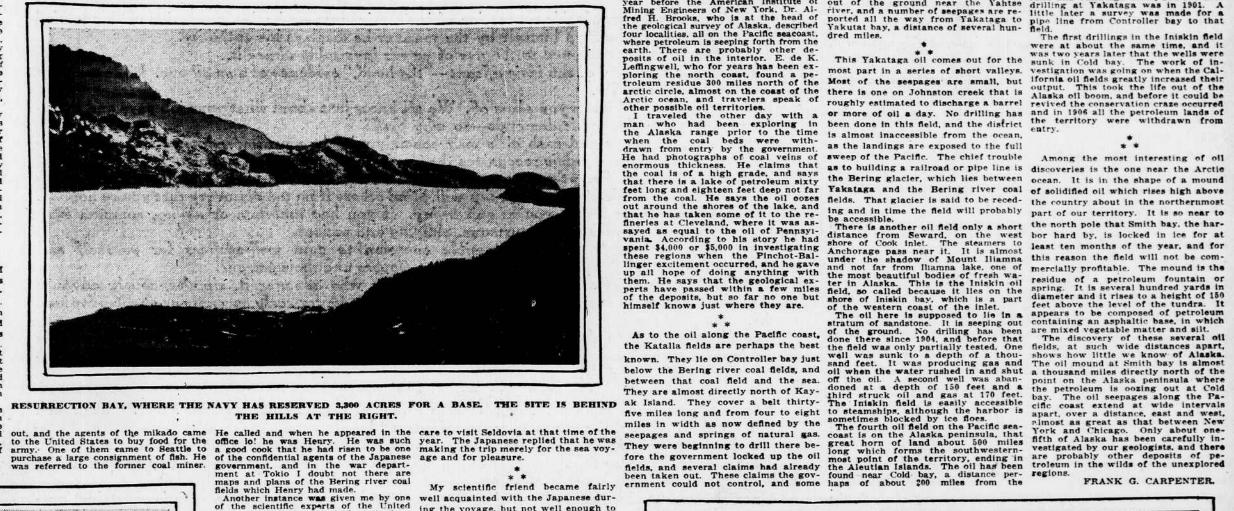
Practically the only good steaming coal in our Pacific coast territories lies here in Alaska. The Asiatic fleet of the future will need in the neighborhood of a half million tons per annum, and the coaling stations of the Hawaiian Islands and of the Philippines will be supplied from here. It is of enormous importance that the harbors near which the coal lies be amply protected and defenses should be at once instituted for all the approaches to Resurrection bay. The terminus of Uncle Sam's railroad. That road leads to the Matanuska coal fields and the branch line opening them will be completed this year. The coal will come from those fields to Seward, and it will also go down to Anchorage, which is perhaps a hundred miles nearer the coal beds. The latter port will have to be protected from Cook Inlet, that wide and deep bay up which ships can now sall to within seventy-five miles of our best naval coal supplies.

Another important harbor is that of

Cordova, where this letter is written. posits of the territory. It is within a short distance of the Bering river coal fields, which have great beds of bituminous and anthra- One of the last Japanese stories I cite, and also within easy reach of the heard relates to a Seattle man who was Katalla oil fields, the petroleum of operating in the Bering coal fields bewhich is said to be as good as that fore they were closed by the government. of Pennsylvania and eminently fit for the making of gasoline. Indeed, they are making gasoline there now and shipping it to Cordova for sale. Cordova is also within 200 miles by an excellent railroad of the best copper mines of the whole world. These are the famous Kennicott properties, which are now producing millions of dollars' worth of copper a year at a cost of less than 5 cents a pound. Copper is one of the great necessities of modern warfare and any nation that has hold of the Cordova harbor can control all the copper it would need in any war of the future. Moreover, by building a railroad only thirty-eight miles long Cordova could have access to some of the best coal on the hemisphere and also to the Katalla oil fields, which of Pennsylvania and eminently fit for This man had a cook from Japan, whom

Another important harbor is that of and I doubt not they have full informa-

DREPAREDNESS Program and the Territory—How Coal and Oil Resources Should Be Protected From the Navies of the Pacific-Dangers That Might Arise-Defenses Needed for Resurrection Bay and Cordova-Petroleum Beds of the Pacific Coast-Where and What They Are—An Oil Lake in the Alaskan Range and a Petroleum Mound on the Shores of the Arctic.



it, and the agents of the mikado came the United States to buy food for the may. One of them came to Seattle to a good cook that he had risen to be ome a good cook that he had risen to be one against the former coal miner. The search of the former coal miner as referred to the former coal miner.

Another institute of the Bering river coal fields which Henry had made.

Another institute expected an assignment to go from Juneau to Seward late one September not long ago. The cold weather had already set in the found that one of the men upon board was a Japanese naval attache who had received an assignment to go from Juneau to Seward late one September not long ago. The cold weather had already set in found that one of the men upon board was a Japanese naval attache who had not the men upon board was a Japanese naval attache who had not the men upon board was a Japanese naval attache who had not be men upon board was a Japanese naval attache who had not be men upon board was a Japanese naval attache who had not the men upon board was a Japanese naval attache who had not the men upon board was a Japanese naval attache who had not the men upon board was a Japanese naval attache who had not the men upon board was a Japanese naval attache who had not the men upon board was a Japanese naval attache who had not the men upon board was a Japanese naval attache who had not the men upon board was a Japanese naval attache who had not the men upon board was a Japanese naval attache who had not the men upon board was a Japanese naval attache who had not the men upon board was a Japanese naval attache who had not the men upon board was a Japanese naval attache who had not the men upon board was a Japanese naval attache who had not the men upon board was a Japanese naval attache who had not had not the man to had not had not the was point to the white steamer left Juneau the security of the transportation of the left of the latest charts of our geodetic survey white the was going, and upon his replying that he was going, and upon

work is now being done upon them. In all twenty-six different holes have been drilled and in ten of these more or less oil has been struck. Some of the wells have been producing from ten to twelve barrels per day, but the deepest well has been put down only sixteen hundred feet and none has gone deep enough to actually test the field.

A little further south along the coast is another oil region. This is known as the Yakataga field. It lies just beyond the Bering glacier, and extends to the southeastward for a distance of perhaps twenty miles. The field is marked out by the oil seeping out of the ground. The southern edge of it is from a half mile to two miles from the ocean shore. The oil goes on to an unexplored and ice-covered region tributary to Icy bay. Some is found oozing to out of the ground near the Yahtse river, and a number of seepages are reported all the way from Yakataga to Yakataga fields, and the first drilling at Yakataga was in 1901. A little later a survey was made for a pipe line from Controller bay to that field were at about the same time, and it was two years later that the wells were sunk in Cold bay. The work of investigation was going on when the California oil fields greatly increased their output. This took the life out of the roughly estimated to discharge a barrel or more of oil a day. No drilling has

parts of Alaska. In a paper given last year before the American Institute of Mining Engineers of New York, Dr. Alter of the geological survey of Alaska, described four localities, all on the Pacific seacoast, where petroleum is seeping forth from the earth. There are probably other deposits of oil in the interior. E. de K. Leffingwell, who for years has been exploring the north coast, found a petroleum residue 300 miles north of the arctic circle, almost on the coast of the Arctic ocean, and travelers speak of other possible oil territories.

I traveled the other day with a man who had been exploring in the Alaska range prior to the time when the coal beds were withdrawn from entry by the government. He had photographs of coal veins of enormous thickness. He claims that the coal is of a high grade, and says that there is a lake of petroleum sixty feet long and eighteen few acoast, cound a petroleum sixty feet long and eighteen few acoast, some all the way from Yakataga to prope lime is almost on the coast of the Arctic ocean, and travelers speak of other possible oil territories.

I traveled the other day with a man who had been exploring in the Alaska range prior to the time when the coal beds were withdrawn from entry by the government. He had photographs of coal veins of enormous thickness. He claims that the coal is of a high grade, and says that there is a lake of petroleum sixty feet long and eighteen few acoast, some of oil a day. No drilling has been done in this field, and the district is almost inaccessible from the ocean, as the landings are exposed to the full sweep of the Pacific. The chief trouble as to building a railroad or pipe line is the termination of the most part of the ground near the Yakataga and the distinct of the ground near the Yakataga of proved all the way from Yakataga oil comes out for the ground near the Yakataga oil to the government.

This Yakataga oil comes out for the most part in a series of short valleys.

Most of the ground near the Yakataga oil comes out for the west on sweep of the Pacific. The chief trouble Among the most interesting of oil as to building a railroad or pipe line is discoveries is the one near the Arctie the Bering glacler, which lies between ocean. It is in the shape of a mound Yakataga and the Bering river coal of solidified oil which rises high above fields. That glacier is said to be reced- the country about in the northernmost ing and in time the field will probably part of our territory. It is so near to

roughly estimated to discharge a barrel revived the conservation craze occurred



LAYING RAILS AT ANCHORAGE. FORTIFICATIONS WILL BE NEEDED AT THIS PLACE.

Establishing the Dyestuff Industry on a Paying Basis in This Country

R. WALTER F. RITMAN, the government chemist, has litterally steeped into the breach to effect the country's salvation in regard to the establishment of a domestic dyestuff industry.

Dr. Ritman's process is of inestimable value to the nation, since he has made it possible for the United State to make at once all of the high explosives she wants without having to depend upon other nations for the raw materials. The process, which is the first to obtain benzol and toluol from crude oil, just as it comes from the earth, instead of from come the carries of the state of the comes from the liquid oil, it breaks them up when the jreach the vapor stage and thereby more action is obtained for more of the molecules are thus broken up or cracked, as the chemist term it, has in the old method.

The same process is used for obtaining gasoline and benzol and toluor in getting the gasoline none of either of the two ingredients are found with it. When the process is set for benzol and toluor to meet the commendation of the connected with our national economic policy and the connected with our national economic policy and the process is used for obtaining gasoline and benzol and toluor to meet the connected with our national economic of the other two ingredients are found with it. When the process is set for the molecules are thus broken up or cracked, as the chemists term it, than in the old method.

The same process is used for obtaining assoline and benzol and toluor to meet the connected with our national economic of the other two ingredients are found with it. When the process is set for benzol and toluor to meet the connected with our national economic policy than that today the United States of America is compelled to humbling the country would have been one of the molecules are thus which have been delivered the process of process in the same process is set for benzol and toluor a little gasoline on process is set for the molecules and toluor a little gasoline on process is set for the process in the process in the proc

LOADING COPPER ORE AT CORDOVA, THESE WHARVES ARE NOW UNDEFENDED.

WHAT the Rittman Process Has Accomplished, and What It Promises for the Future. Government Chemist Steps to the Front When the United States Feels Shortage of Raw Materials From Germany-Protection for the Industry-Basic Chemicals of Dyestuffs and High Explosives-Why the Germans Held a Monopoly.





bit of chemical of value, while the United States has treated only about one-sixth of her coke in this manner, and this is just about the degree of difference which all the resources of fully the two countries have been developed in these two lines, according to Dr. Parsons.

explaining the means of obtaining the necessary chemicals, said:

"The bureau of mines has long been interested in the development of a byproduct coke industry on account of the tremenders are that has taken place variety. This waste of material, valuable to the farmers of the country for agricultural purposes, to the manufacturers for power and to the whole nation as a source of product which might be used in time of war for explosives, and in time of peace for a dyestuff industry, was pointed out by the bureau in 1912.

"The figures given then for the year 1910 showed that \$3.000.000 tons of coal containing \$22.000.000 worth of recoverable nitrogen were converted into coke, but only about one-sixth of this coal was treated in by-product coke ovens or return the product ovens the value of the recoverable contents of the coal made into coke in the beehive ovens would have been between \$25.000.000 and \$40,000,000.
"It is through the use of the byproduct ovens that Germany has obtained the basis of both a high explosive industry and a dyestuff industry. Through by-product ovens that Germany has obtained the basis of both a high explosive used in times of particultural purposes and in time of war may be oxidized into mitric acid, the basis and ababolitely essistations.

"It is chiefly from ammonia obtained from by-product coke that Germany is now procuring her nitrogen compounds by the oxidation of ammonia. Furthermore, the by-product coke industry vields large quantities of coal, which from by-product coke that Germany is now procuring her nitrogen compounds by the oxidation of ammonia. Furthermore, the by-product coke industry will be a product of the chief explosives used in warfare.

"It is chiefly from ammonia obtained from by-product coke that Germany is now procuring her nitrogen compounds by the oxidation of ammonia. Furthermore, the by-product coke industry will be a product to the compounds of the chief explosives used in warfare.

The demand for colors has grown so desperate that the bureau of mice and

the basis of most dyestuffs and the basis for the high explosives used in shells, torpedoes, etc., as well as the naphthalene, anthracene and most of the other compounds going into the dyestuff industry."

**

The difference between the progress made by Germany and the United States in these two industries that are so closely allied is that Germany treats about five-sixths of her coke in byproduct ovens, so as to obtain every bit of chemical of value, while the

Between 20,000 and 25,000 tons of fustic are imported annually now and it is estimated by the forest service that fully twice this amount of orange wood waste is available each year in the two states mentioned. Dyes from this wood have been through all of the necessary laboratory tests and have been found to give fully as good, if not better, results than the foreign wood.

No Outlook.

E Americans believe in augmenting our output. We believe in forging ahead. We're not like Smithers." said a Baltimore capitalist the other day.

"One day in Loretto I saw Smithers whitewashing his pigpen with a whitewash brush with nearly all the bristles gone.

"'Smithers.' I said, 'why don't you get a brush with more bristles in it? "'Why should I do that?' Smithers

"Why,' said I, 'because, of course, if your brush had more bristles, you could do twice as much work."
"Yeh. P'r'aps I could,' said Smithers.

But, ye see, I ain't got twice as much work to do."